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Conversions

When units are not consistent, you may need to convert appropriate ones.

Units can be treated like algebraic quantities that can cancel each other out.

$$1 \text{ mile} = 1609 \text{ m} = 1.609 \text{ km}$$

$$1 \text{ ft} = 0.3048 \text{ m} = 30.48 \text{ cm}$$

$$1 \text{ m} = 39.37 \text{ in} = 3.281 \text{ ft}$$

$$1 \text{ in} = 0.0254 \text{ m} = 2.54 \text{ cm}$$

$$1 \text{ mile} = 5280 \text{ ft}$$

Questions:

1. Convert 500 millimeters into meters.
2. Convert 4.2 liters into milliliters.
3. Convert 1.45 meters into inches.
4. Convert 65 miles per hour into kilometers per second.

Example: Convert miles per hour to meters per second:

$$1 \frac{\text{mi}}{\text{hr}} = \frac{1 \cancel{\text{mi}}}{\cancel{\text{hr}}} \times \frac{5280 \cancel{\text{ft}}}{\cancel{\text{mi}}} \times \frac{1 \text{ m}}{3.28 \cancel{\text{ft}}} \times \frac{\cancel{1 \text{ hr}}}{3600 \text{ s}} = 0.447 \frac{\text{m}}{\text{s}} \approx \frac{1 \text{ m}}{2 \text{ s}}$$

General Physics I, Lecture Note, Part 1
(Lecture 1-11)

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